






## Thermal management

### YOUR PARTNER FOR

-  Engineering
-  Simulation
-  Testing

## THERMAL MANAGEMENT

Intelligent thermal management in vehicles is becoming more and more important and increasingly complex. In addition, today's vehicle models demand ever more powerful cooling systems. While conventional vehicles focus on optimum engine cooling, compliance with emission regulations and ensuring driving comfort, electric and hybrid vehicles, for example, are much more difficult to optimise range.

Due to our many years of experience, our know-how and our goal-oriented way of working, our customers entrust us with these complex thermal management tasks. By means of our systematic procedure, from the first interpretation of the cooling circuit, to simulation, to system integration and comprehensive testing (test stand, wind tunnel, real drive), we master these tasks and ensure our partners optimum thermal management.

In particular, we rely on test benches, including transparent components, for the detailed investigation of ventilation behavior and coolant flows in order to ensure a cost- and time-efficient development process. The following list shows the most important benefits of the PTS method for our customers.

### Benefit of the PTS method

- Development steps are reduced to a minimum
- Important knowledge gains before tool release
- Efficient project implementation through interdisciplinary networking
- Consideration of all key variables for each development step
- Cost optimisation due to well thought-out process steps
- Problem-solving competence due to many years of experience
- Comprehensive experience and know-how from all core competencies

TOGETHER INTO THE CO<sub>2</sub>-NEUTRAL FUTURE!